

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

## RECORDATION FORM COVER SHEET

U.S. Department of Commerce  
Patent and Trademark Office

## PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): Date of Execution  
 WAI-FAN YAU February 11, 1998  
 DAVID CHEUNG February 11, 1998  
 SHIN-PUU JENG February 11, 1998  
 KUOWEI LIU February 11, 1998  
 YUNG-CHENG LU February 11, 1998

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: See Above and the Attached

## 2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.Internal Address: P.O. Box 450-A

Street Address: \_\_\_\_\_

City: Santa Clara State: CA Zip: 95052Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: Herewith (Date of Filing)

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent CounselInternal Address: APPLIED MATERIALS, INC.Street Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 950526. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41) \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account50-1074/2592.C7/DSM/LOW K/JW

## 8. Deposit account number:

50-1074/2592.C7/DSM/LOW K/JW

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and the attached copy is a true copy of the original document.

Robert W. Mulcahy Reg. No. 25,436  
 Name of Person Signing

Signature

Jan. 13, 2004  
 Date

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents, MAIL STOP PATENT APPLICATION  
 P.O. BOX 1450  
 Alexandria, VA 22313-1450

# COPY

PATENT  
Atty. Dkt. AMAT/ 2592/PDD/LOWK/MBE

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- |  |  |
|--|--|
| 1) <b>WAI-FAN YAU</b><br>1568 Gretel Lane<br>Mountain View, CA 94040     | 4) <b>KUOWEI LIU</b><br>163 N. San Tomas Aquino Road<br>Santa Clara, CA  |
| 2) <b>DAVID CHEUNG</b><br>235 Billingsgate Lane<br>Foster City, CA 94404 | 5) <b>YUNG-CHENG YU</b><br>3671 Greenlee Drive, #3<br>San Jose, CA 95117 |
| 3) <b>SHIN-PUU JENG</b><br>20804 Dunber Dr.<br>Cupertino, CA 95054       |  |

(hereinafter referred to as Assignors), have invented a certain invention entitled:

### METHOD OF DEPOSITING A LOW K DIELECTRIC WITH ORGANO SILANE

for which application for Letters Patent in the United States is being executed and filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

# COPY



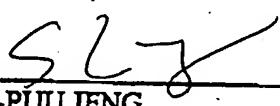
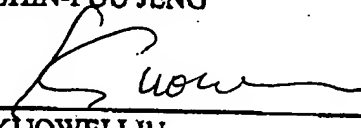
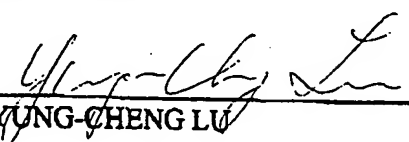
PATENT  
Atty. Dkt. AMAT/ 2592/PDD/LOWK/MBH

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>Feb 11<sup>th</sup></u>	1998	 WAI-FAN YAU
2)	<u>Feb 11</u>	1998	 DAVID CHEUNG
3)	<u>Feb 11</u>	1998	 SHIN-PIU JENG
4)	<u>Feb 11</u>	1998	 KUOWEI LIU
5)	<u>Feb 11</u>	1998	 YUNG-CHENG LU

# COPY

PATENT  
Atty. Dkt. AMAT/2592/PDD/LOWK/MBE

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

## INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## TITLE OF INVENTION

METHOD OF DEPOSITING A LOW K DIELECTRIC  
WITH ORGANO SILANE

## SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ filed herewith;
- ☐ was filed on \_\_\_\_\_, under Serial No. \_\_\_\_\_, executed on even date herewith; or
- ☐ Express Mail No. \_\_\_\_\_ (Serial No. not yet known) and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

# COPY

PATENT  
Atty. Dkt. AMAT/2592/PDD/1.OWK/MBE

## ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

## PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

\*\* ☒ No such applications have been filed.

☐ Such applications have been filed as follows:

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
--------------------	-----------------------	-------------------	-------------------------

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos. for design) prior to this U.S. application

Country:

Application No:

Filing date:

# COPY

PATENT  
Atty. Dkt. AMAT/Z592/PDD/LOWK/MBE

## PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☐ No such applications have been filed  
☐ Such application have been filed, as follows:

Serial No.	Filing Date	Status		
		Patented	Pending	Abandoned
(None)				

## POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Michael L. Sherrard	Registration No. 28,041
Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Leslie A. Weise	Registration No. 36,305
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
John R. Schiffhauer	Registration No. 32,170
B. Todd Patterson	Registration No. 37,906
Jeffrey L. Streets	Registration No. 37,453

### Send correspondence to:

Patent Counsel  
APPLIED MATERIALS, INC.  
P. O. Box 450-A  
Santa Clara, CA 95052

### Direct telephone calls to:

B. Todd Patterson  
PATTERSON & STREETS, L.L.P.  
3040 Post Oak Blvd., Suite 1500  
Houston, TX 77056  
713/623-4844

# COPY

PATENT  
Atty. Dkt. AMAT/2592/PDD/LOWK/MDE

## DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

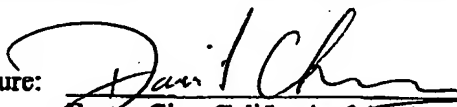
Full name of sole or first inventor: WAI-FAN YAU.

Inventor's signature:   
Residence: Mountain View, California 94040  
Post Office Address: 1568 Gretel Lane  
U.S.A.

Date: 2/11/98

Country of Citizenship: U.S.A.


Full name of second inventor: DAVID CHEUNG

Inventor's signature:   
Residence: Foster City, California 94404  
Post Office Address: 235 Billingsgate Lane  
U.S.A.

Date: 2/11/98

Country of Citizenship: U.S.A.

Full name of third inventor: SHIN-PUU JENG

Inventor's signature:   
Residence: Cupertino, California 95054  
Post Office Address: 20804 Dunbar Dr.  
U.S.A.

Date: 2/11/98

Country of Citizenship: U.S.A.



# COPY

PATENT  
Atty. Dkt. AMAT/2592/PDD/LOWK/MBE

Full name of fourth inventor: KUOWEI LIU

Inventor's signature: [Signature]  
Residence: Santa Clara, California  
Post Office Address: 163 N. San Tomas Aquino Road.  
U.S.A.

Date: 2/11/98

Country of Citizenship: U.S.A.

Full name of fifth inventor: YUNG-CHENG YU

Inventor's signature: [Signature]  
Residence: San Jose, California 95117  
Post Office Address: 3671 Greenlee Drive, #3  
U.S.A.

Date: 2/11/98

Country of Citizenship: Taiwan, ROC

(Declaration ends with this page)

E:\APPM\2592\PTO\DECLARATION.POA.DOC